



Emergency Response Procedures (ERPs)

ERP
04/21/2004

- **ERPs located in pink binder in control room**
- **Color keyed**
 - Black - Procedure steps
 - Red - Important safety warnings
 - Green - Expert actions/suggestions
 - Blue - Additional information or automatic actions
- **CDF Emergency Response Procedures:**
 - CDF Fire Alarm
 - CDF Oxygen Deficiency Hazard (ODH) Alarm
 - Assembly Building with 1200 T shielding door closed
 - Assembly Building or Collision Hall with 1200 T shielding door open
 - CDF Flammable Gas Alarm
 - Assembly Building
 - Collision Hall
 - Gas Shed (behind Assembly Building, not gas mixing shed on other side of berm)
 - COT Inerting
 - Severe Weather (Tornado) Alarm
 - Radiation Exposure Procedure
 - Spill Procedure
 - Recovery Procedure



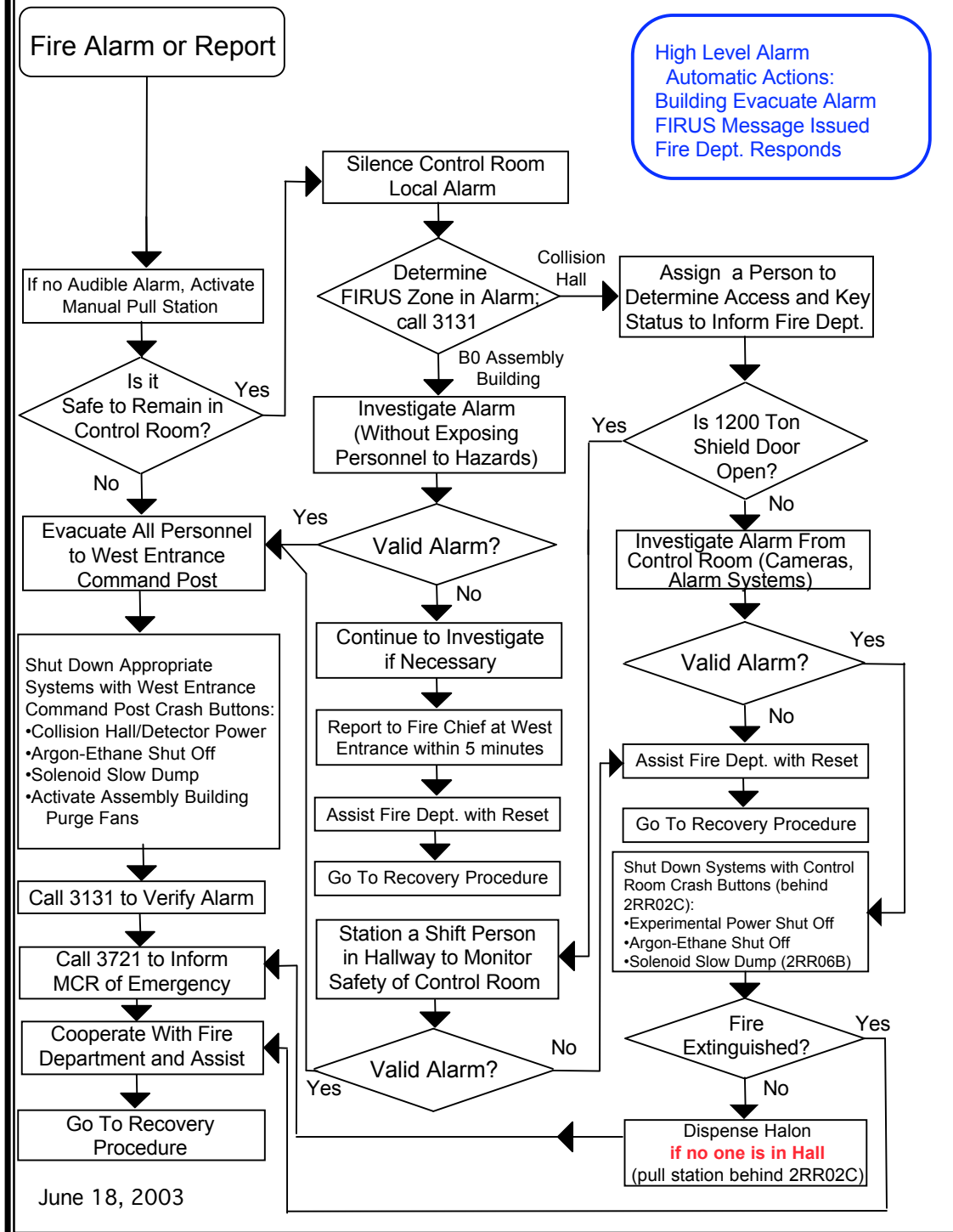
Emergency Response Procedures (ERPs)

ERP
04/21/2004

WARNING:
Exit Building if
You Feel at Risk

CDF Fire Alarm

WARNING:
Do Not Enter
Collision Hall





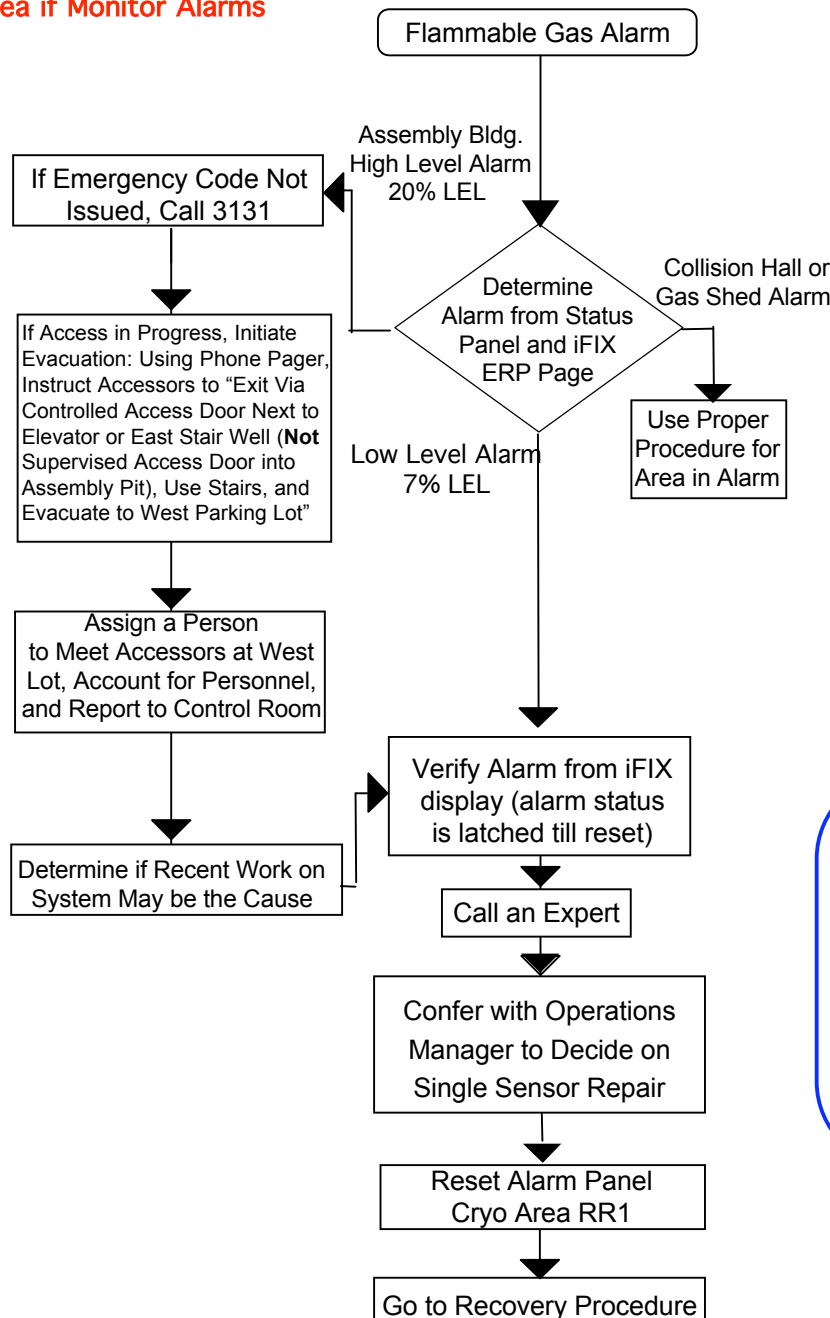
Emergency Response Procedures (ERPs)

ERP
04/21/2004

WARNING:
Experts Investigating
Must Wear Dual Function
Gas Monitors and Leave
Area if Monitor Alarms

CDF Flammable Gas Assembly Building

WARNING:
Two Man Rule in Effect



Expert Investigators
can do the following:

- Investigate Alarm Further Without Exposing Personnel to Hazards
- Determine Leak Validity and Severity at Zone Indicated Using a TIF-8800 (red) Flammable Gas Detector or by Investigating Nitrogen Purge System
- Close Manual Gas Supply Valve MV-2405 if High Level Alarm (Gas Shed Key Required)

High Level Alarm
Automatic Actions:

Building Evacuate Alarm
FIRUS Message Issued
Fire Dept. Responds
Flammable Gas Shutoff
High Voltage Shutoff
400 Hz Power Shutoff
Detector 60 Hz Power Shutoff
Assembly Building Ventilation
Purge Fans

June 18, 2003



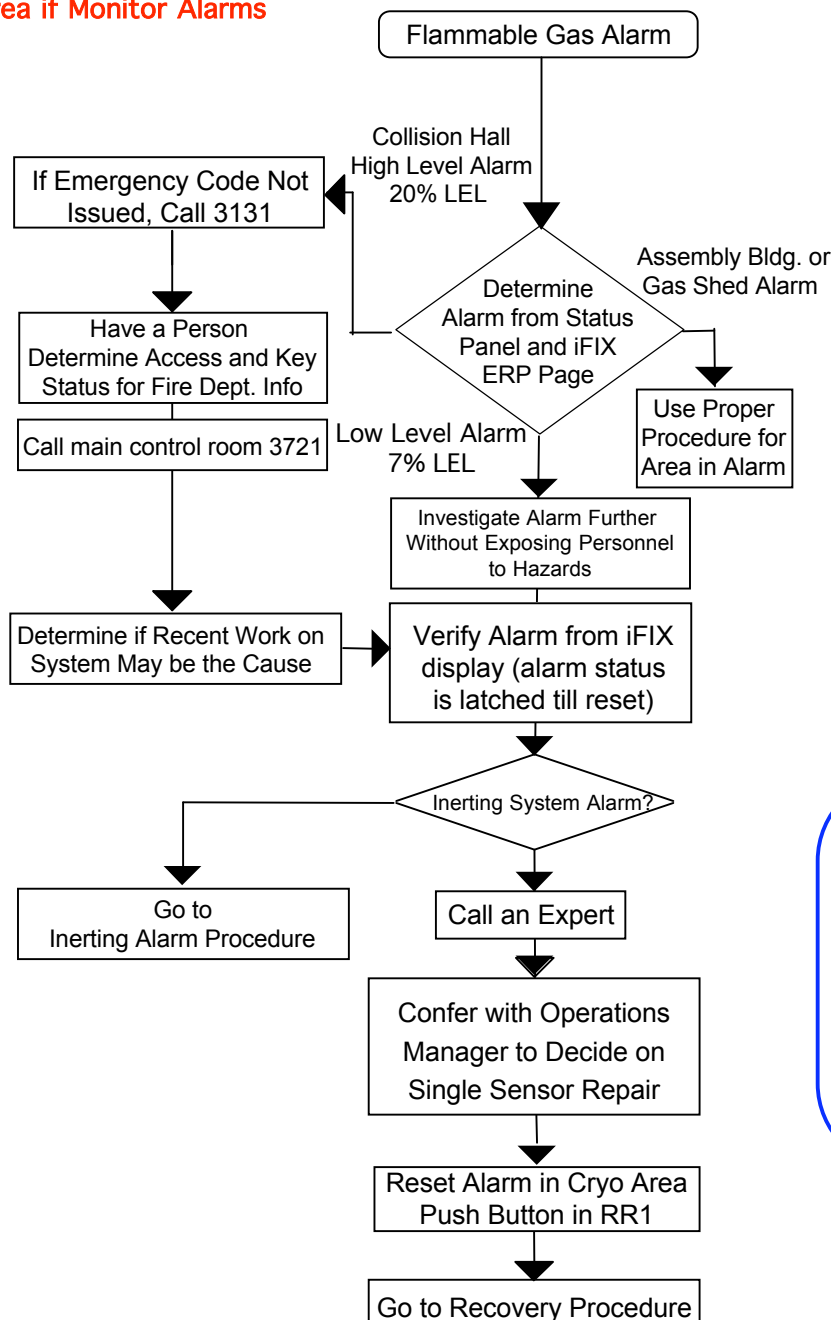
Emergency Response Procedures (ERPs)

ERP
04/21/2004

WARNING:
Experts Investigating
Must Wear Dual Function
Gas Monitors and Leave
Area if Monitor Alarms

CDF Flammable Gas Collision Hall

WARNING:
Two Man Rule in Effect



Expert Investigators can do the following:

- Determine Leak Validity and Severity at Zone Indicated Using a TIF-8800 (red) Flammable Gas Detector or by Investigating Nitrogen Purge System
- Close Manual Gas Supply Valve MV-2405 if High Level Alarm (Gas Shed Key Required)

High Level Alarm Automatic Actions:

Building Evacuate Alarm
FIRUS Message Issued
Fire Dept. Responds
Flammable Gas Shutoff
High Voltage Shutoff
400 Hz Power Shutoff
Detector 60 Hz Power Shutoff
Collision Hall Ventilation
Purge Fans

June 18, 2003



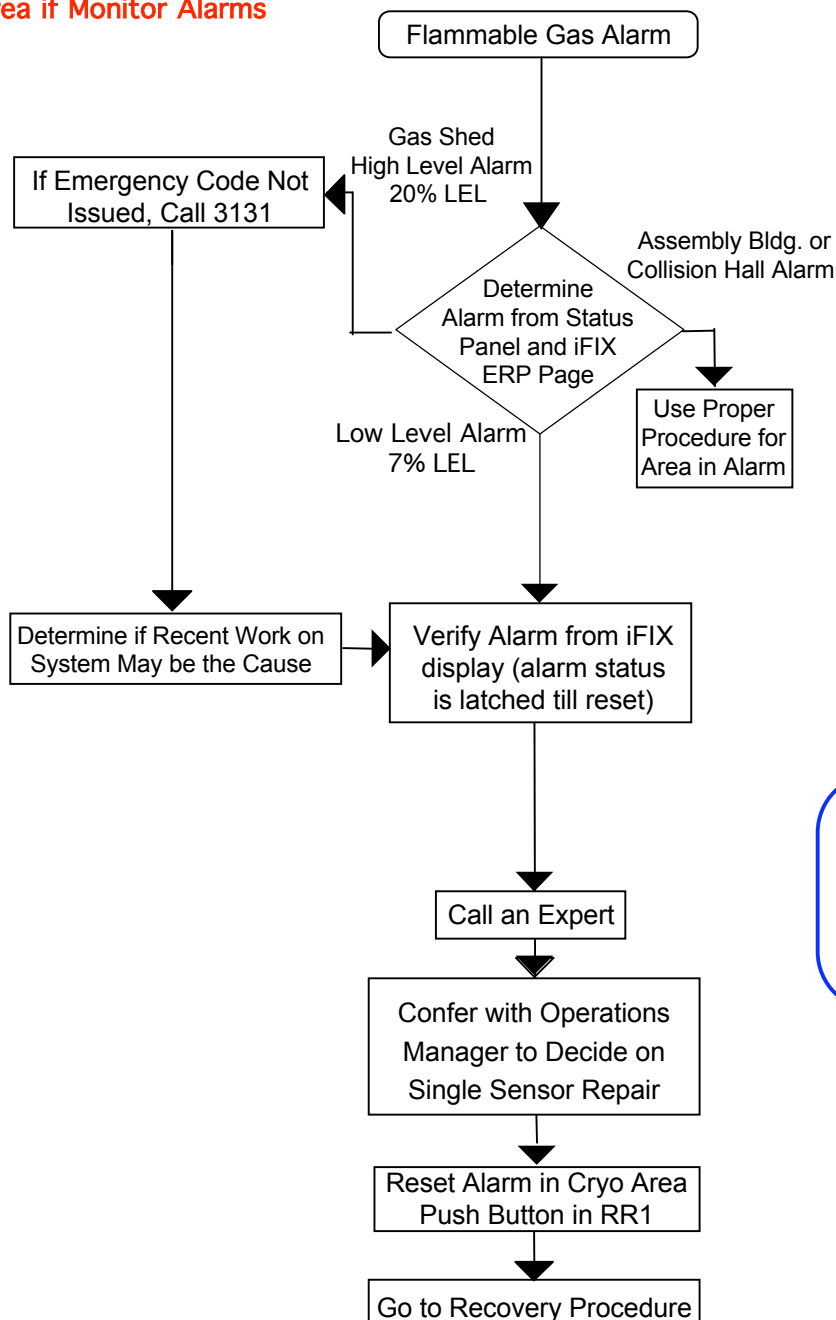
Emergency Response Procedures (ERPs)

ERP
04/21/2004

WARNING:
Experts Investigating
Must Wear Dual Function
Gas Monitors and Leave
Area if Monitor Alarms

CDF Flammable Gas Gas Sheds

WARNING:
Two Man Rule in Effect



Expert Investigators can do the following:

- Determine Leak Validity and Severity at Zone Indicated Using a TIF-8800 (red) Flammable Gas Detector or by Investigating Nitrogen Purge System
- If Appropriate, Shut Down Gas System Compressor; Crash Button is outside East side next to Gas Shed Gate

High Level Alarm Automatic Actions:

FIRUS Message Issued
Fire Dept. Responds
Flammable Gas Shutoff

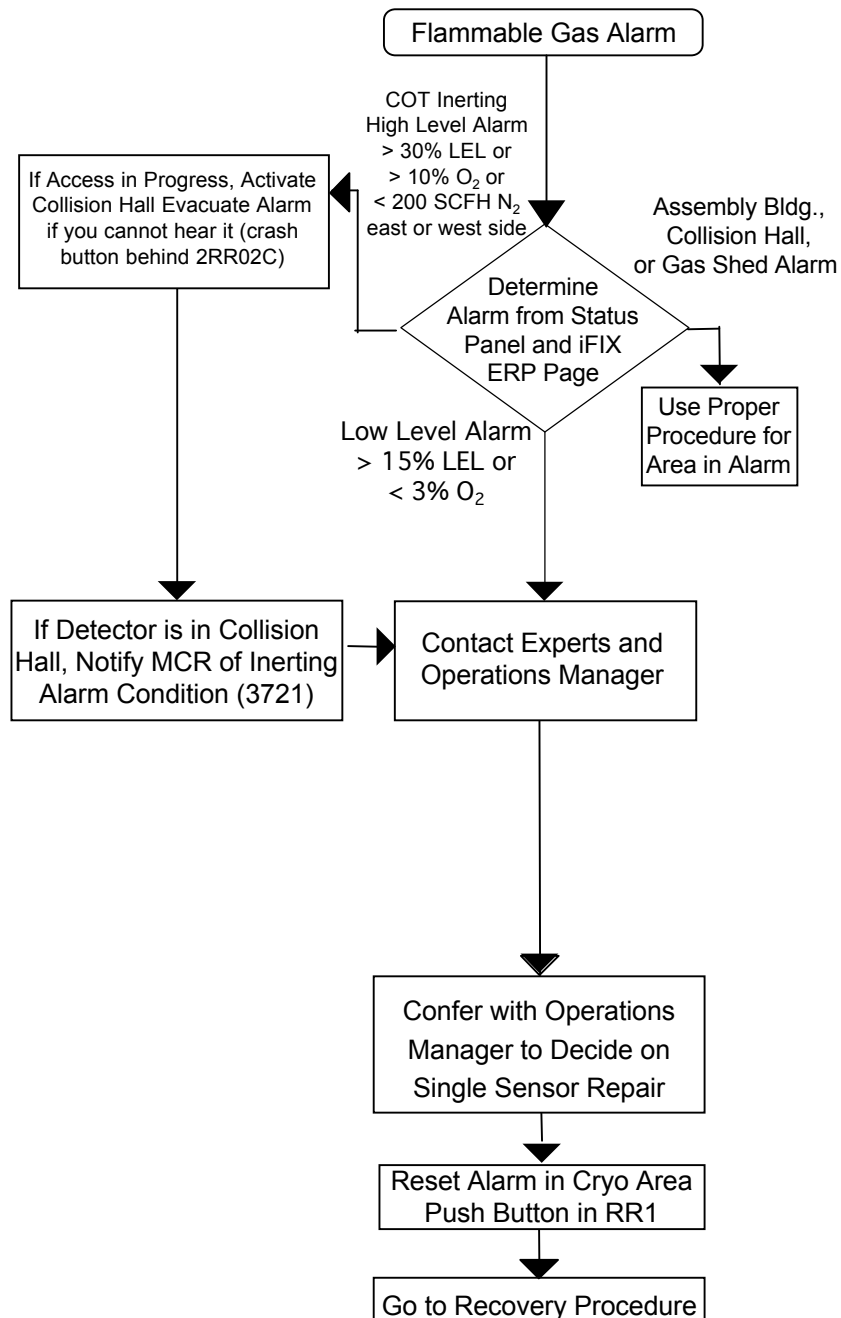
June 18, 2003



Emergency Response Procedures (ERPs)

ERP
04/21/2004

CDF Flammable Gas COT Inerting Alarm



Expert Investigators
can do the following:

- Check 730' Platform N₂ Flow Valid Alarm: Station 10 COTE & COTW will Alarm if either Dwyer gauge < 200 SCFH
- Check RRG04 to Verify Sample Draw Pump is Operating and O₂ Monitor Flow Rates Are:
 - Sample = 50 SCFH
 - Air Flow = 12 SCFH
- Verify N₂ Supply is Normal:
 - Tank #32 > 36 PSIG
 - Tank #18 > 40 PSIG

Shift Crew Can:

- Verify COT Inerting East or West Flow switches on iFIX Display Alarms Page
- Verify Flammable Gas Sensor Readings on iFIX Display:
 - Low Alarm ≥ 15% LEL
 - High Alarm ≥ 30% LEL

June 18, 2003

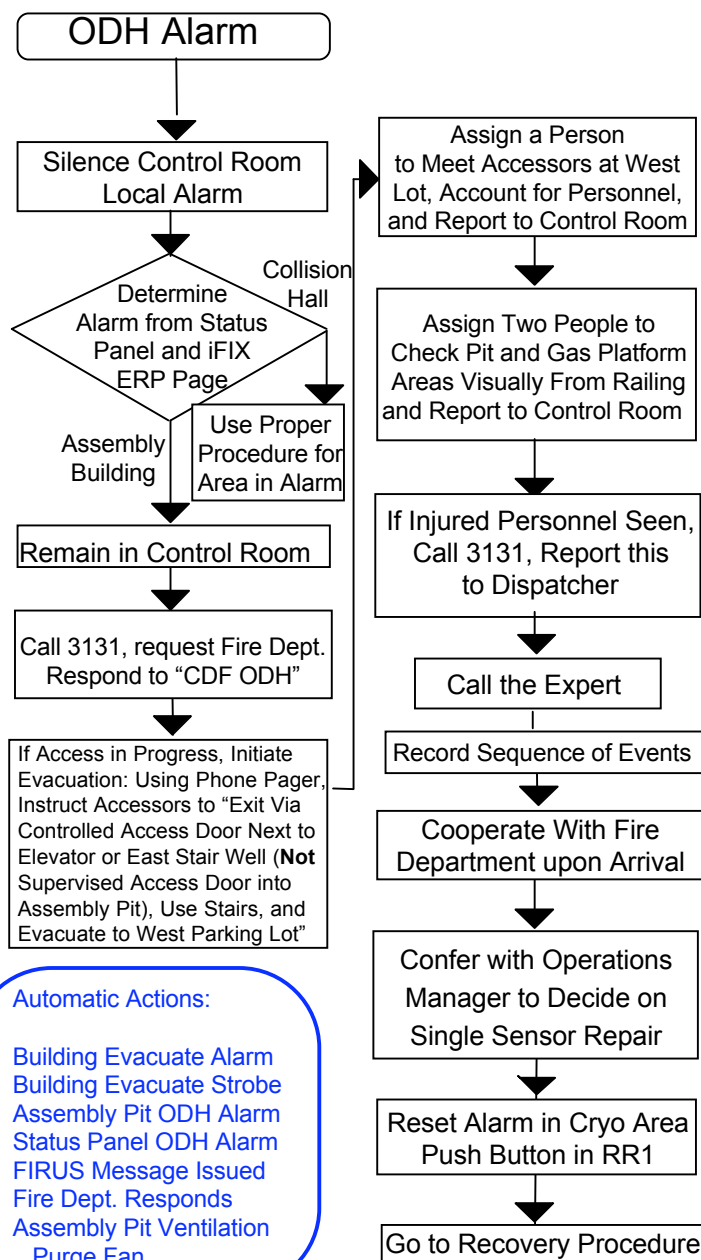


Emergency Response Procedures (ERPs)

ERP
04/21/2004

**WARNING: Do Not Enter
Deep Pit**

CDF ODH Alarm Assembly Building with 1200 Ton Shield Door Closed



Expert Investigators can do the following:

- Check Alarm at Cryo Area Rack #1
- Investigate Further:
 - Check for Other Alarms
 - Determine if Recent Changes are Cause
 - From iFIX, check PF1
 - Check Cryo System Readbacks

Alarm is Valid if any of the following are true:

- Vapor Cloud or Broken Line Seen
- More than One Sensor Indicates Latched Alarm
- Latched Sensor Non-Normal Reading Persists
- All Access Keys Cannot Be Accounted For (Unless Assembly Pit is Not Part of Access Area)

If Valid Alarm is Only One Non-Normal Sensor and no other Confirming Evidence is Found, Alarm is Declared False

June 18, 2003



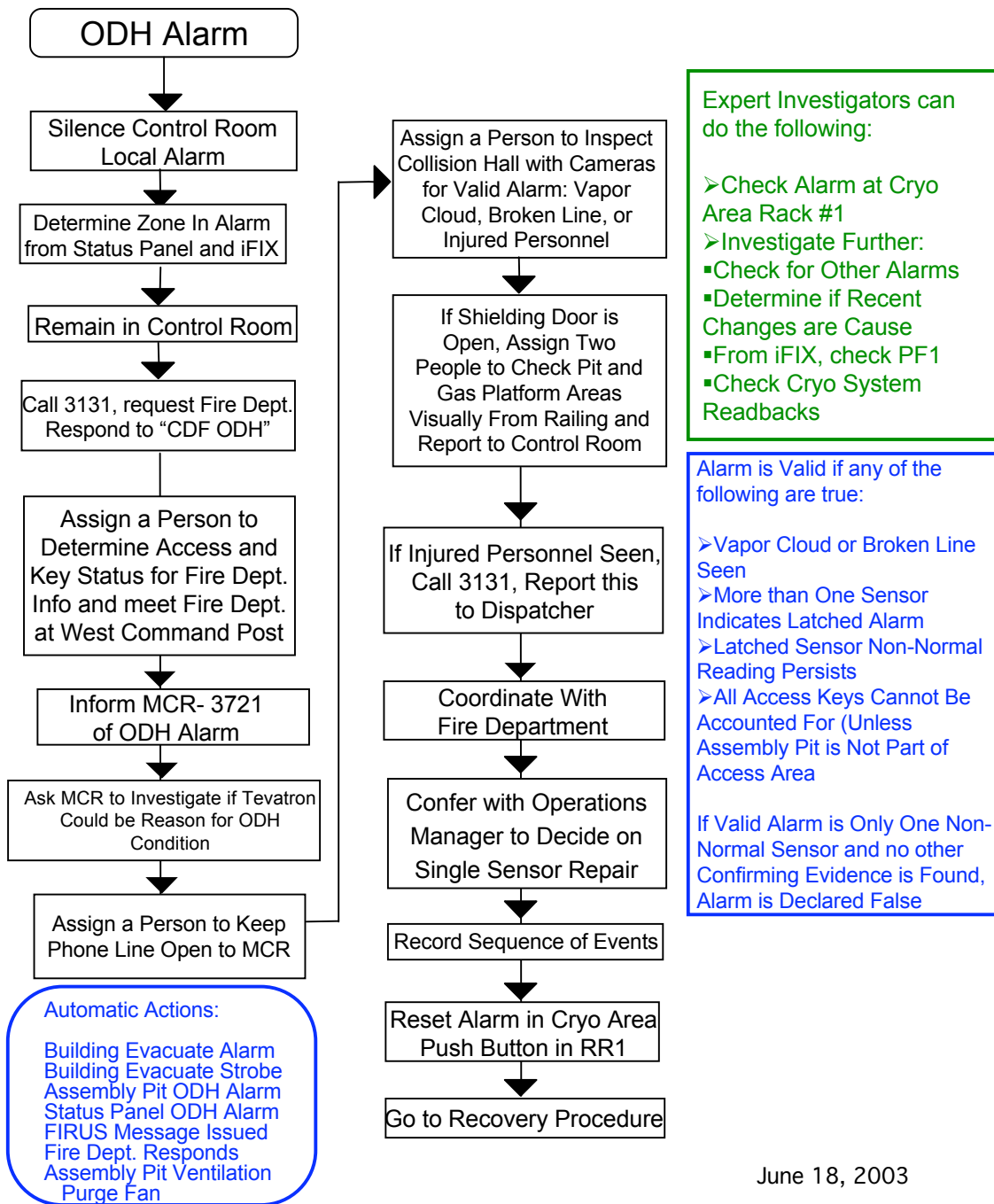
Emergency Response Procedures (ERPs)

ERP
04/21/2004

**WARNING: Do Not Enter
Deep Pit or Collision Hall**

CDF ODH Alarm

Collision Hall or Assembly Building
with 1200 Ton Shield Door Open



June 18, 2003



Emergency Response Procedures (ERPs)

ERP
04/21/2004

CDF Tornado/Severe Weather Alarm

When Warning is Issued:
•DAQ Ace: pause the run
•Monitoring Ace: hit the
“End of Store” button
on the HV control panel
on VNODE1

Take Emergency Pager

Proceed Immediately
to the Tornado Shelter
in the Stairwell

When “All Clear” is
Given Notify People
on the Notification
Call List if Necessary

April 21, 2004



Emergency Response Procedures (ERPs)

ERP
04/21/2004

CDF Radiation Exposure

Receive Report of Exposure

Advise the Detention of Anyone Possibly Exposed

Call 3131, Report Radiation Exposure

If Possible Dispatch a Person to Advise Others to Keep Out of the Area, but do not enter Area

Inform RSO and SSO of the Exposure

Notify Personnel on the PPD/Emergency Call List and CDF Operations Manager

Document Pertinent Operations Information for Exposure

Await instructions from the Division Head

Have MCR Disable Beam to Area if Appropriate

CDF Radiation Safety Officer (RSO):
Wayne Schmitt - 4407

CDF Senior Safety Officer (SSO):
Martha Heflin - 3511

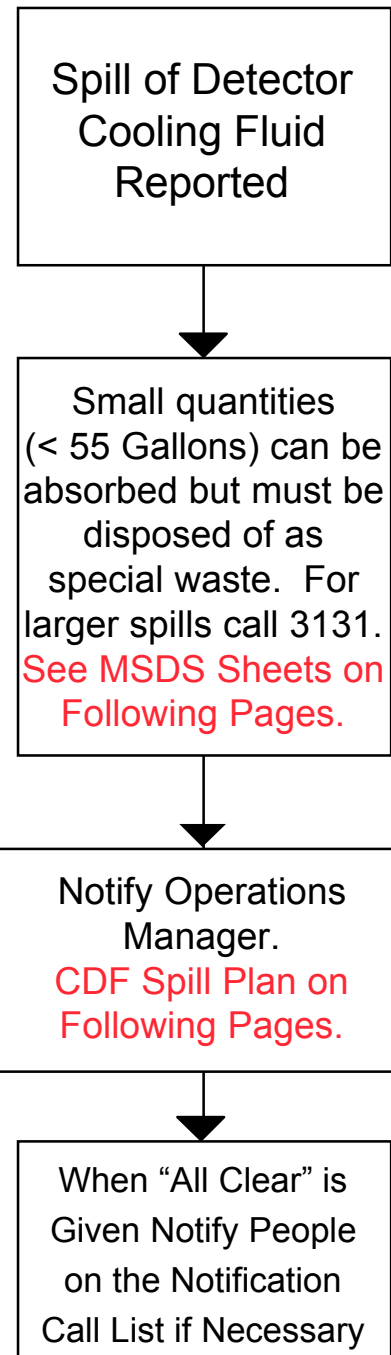
June 18, 2003



Emergency Response Procedures (ERPs)

ERP
04/21/2004

CDF Spill Procedure



June 18, 2003

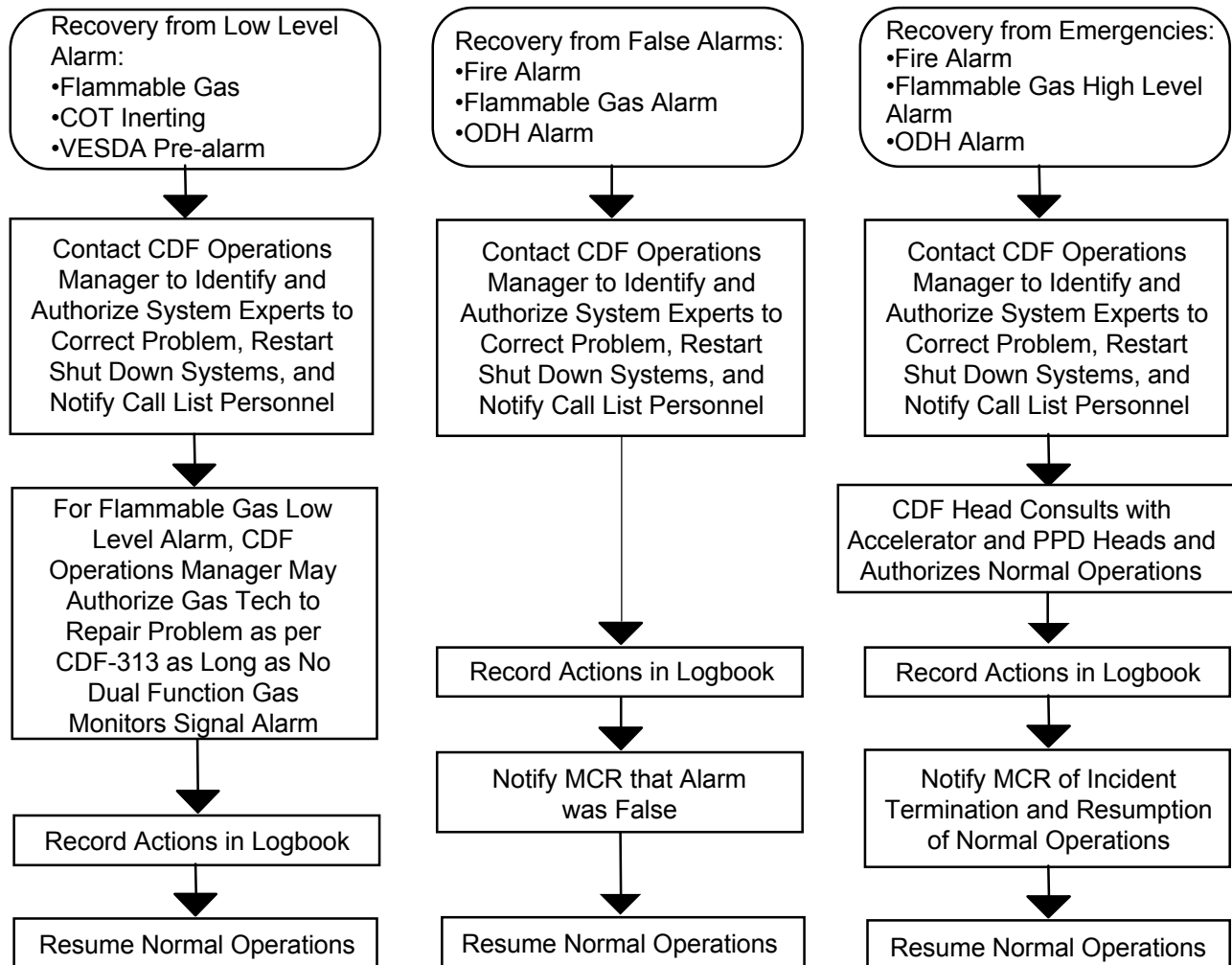


Emergency Response Procedures (ERPs)

ERP
04/21/2004

Warning: Experts with MX241 or COM26 Monitors and Escape Packs should First Enter Pit After ODH False Alarms

CDF Recovery Procedure



June 18, 2003